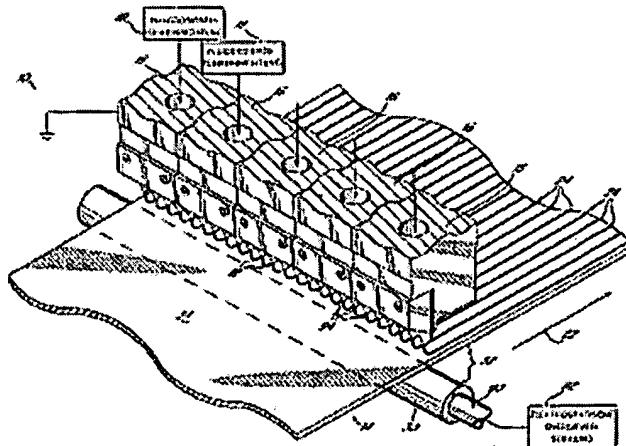


**Electrostatic output device for liquid material has liquid output devices on common axis, each with several outlets that can be actuated to output liquid, electrostatic field generator****Patent number:** DE10053064**Publication date:** 2001-05-17**Inventor:** BORSUK JAMES M (US); SAIDMAN LAURENCE B (US); SCHMITKONS JAMES W (US)**Applicant:** NORDSON CORP (US)**Classification:**- **International:** B05B5/14- **European:** B05B5/08G2; B05B5/14; B05C5/02J; B05C5/02J1B**Application number:** DE20001053064 20001026**Priority number(s):** US19990429821 19991029**Also published as:** JP2001149842 (A)[Report a data error here](#)**Abstract of DE10053064**

The device has liquid output devices on a common axis, each with several outlets that can be actuated to output a liquid and an electrostatic field generator, whereby the liquid output devices and the field generator are at a distance apart so as to define a region through which the substrate can be moved. The electrostatic field attracts the liquid material in continuous, elongated tracks to the moving substrate. The device has several liquid output devices (16) aligned on a common axis, whereby each liquid output device has several outlets that can be actuated to output a liquid (12) and an electrostatic field generator that can be actuated to produce an electrostatic field, whereby the liquid output devices and the field generator are at a distance apart so as to define a region through which the substrate (14) can be moved. The electrostatic field attracts the liquid material in continuous, elongated tracks from the outlets to the moving substrate. Independent claims are also included for the following: a method of electrostatically outputting a liquid material.



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